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PATENT
Docket No. 554792000401

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LILIA OLSEN

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Allan I. BAIN et al.

Serial No.: 10/674,684

Filing Date: September 29, 2003

For: ION CHANNEL MODULATING
COMPOUNDS AND USES THEREOF

Examiner: Not Yet Assigned

Group Art Unit: 1626

**SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98**

MAIL STOP: AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO-1449. Pursuant to the USPTO notice dated July 11, 2003, waiving the requirement under 37 C.F.R. § 1.98 (a)(2)(i) to provide copies of U.S. Patents and U.S. Published Applications, copies of those references are not submitted. Copies of foreign documents and non-patent literature are submitted herewith. The Examiner is requested to make these documents of record.

sf-1747676

This Supplemental Information Disclosure Statement is submitted:

- ☐ With the application; accordingly, no fee or separate requirements are required.
- ☒ **Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required.**
- ☐ After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.
 - ☐ A fee is required. A check in the amount of * is enclosed.
 - ☐ A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below; accordingly; no fee is believed to be due.
- ☐ After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.
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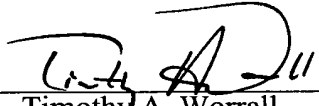
Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

The information contained in this Supplemental Information Disclosure Statement under 37 C.F.R. § 1.97 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

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Dated: October 28, 2004

Respectfully submitted,

By: 
Timothy A. Worrall
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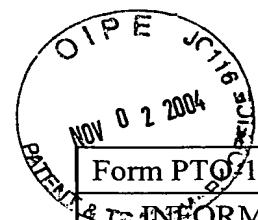
TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/674,684	
	Filing Date	September 29, 2003	
	First Named Inventor	Allan I. BAIN	
	Group Art Unit	1626	
	Examiner Name	Not Yet Assigned	
Total Number of Pages in This Submission	17 + 183 refs	Attorney Docket Number	554792000401

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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual Name	Timothy A. Worrall (Reg. No. 54,552) MORRISON & FOERSTER LLP CUSTOMER 20872
Signature	
Date	October 28, 2004

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SF-1808378



Form PTO 1449	Docket Number 554792000401	Application Number 10/674,684
INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Applicant Allan I. Bain et al.	
(Use several sheets if necessary)	Filing Date September 29, 2003	Group Art Unit 1626
	Mailing Date October 28, 2004	

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	9/27/60	2,954,380	Shapiro et al.			
	2.	11/16/95	3,218,328	Shapiro et al.			
	3.	3/20/79	4,145,435	Szmuszkovicz			
	4.	12/18/79	4,179,501	Szmuszkovicz			
	5.	7/1/86	4,598,087	Horwell			
	6.	4/7/87	4,656,182	Horwell			
	7.	5/5/87	4,663,343	Horwell et al.			
	8.	8/8/89	4,855,316	Horwell et al.			
	9.	11/14/89	4,880,800	Wallis			
	10.	3/6/90	4,906,655	Horwell et al.			
	11.	5/28/91	5,019,588	Horwell et al.			
	12.	9/24/91	5,051,428	Horwell et al.			
	13.	10/22/91	5,059,620	Stout et al.			
	14.	2/20/96	5,492,825	Jan et al.			
	15.	4/9/96	5,506,257	MacLeod et al.			
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	22.	3/23/99	5,885,984	MacLeod et al.			
	23.	1/16/01	6,174,879	MacLeod et al.			
	24.	1/30/01	6,180,632	Myers et al.			

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FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
	25.	9/30/93	WO 93/19056	PCT			
	26.	4/14/94	WO 94/07843	PCT			
	27.	7/7/94	WO 94/14435	PCT			
	28.	3/30/95	WO 95/08544	PCT			
	29.	10/26/95	WO 95/28155	PCT			
	30.	6/20/96	WO 96/18615	PCT			
	31.	8/8/96	WO 96/23894	PCT			
	32.	9/12/97	WO 97/32857	PCT			
	33.	12/31/97	WO 97/49680	PCT			
	34.	1/21/99	WO 99/02159	PCT			
	35.	1/28/99	WO 99/03468	PCT			
	36.	3/11/99	WO 99/11252	PCT			
	37.	4/8/99	WO 99/16431	PCT			
	38.	10/7/99	WO 99/50205	PCT			
	39.	10/7/99	WO 99/50225	PCT			
	40.	12/24/03	WO 03/105756	PCT			
	41.	4/5/88	1234808	CA			
	42.	4/12/88	1235122	CA			
	43.	6/6/90	2004575	CA			
	44.	12/23/97	2008391	CA			
	45.	6/28/93	2058502	CA			
	46.	3/20/01	2132841	CA			
	47.	3/30/95	2172513	CA			
	48.	9/12/97	2240728	CA			
	49.	1/28/99	2289055	CA			
	50.	6/6/74	DE 2 259 260	DE			No
	51.	7/6/78	DE 2 658 401 (English Abstract)	DE			No

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	52.	12/12/85	DE 3 517 901 (English Abstract)	DE			No
	53.	5/20/87	0222533 A1	EP			
	54.	8/1/90	0380063 A1/ B1	EP			
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	58.	7/28/93	0552386 A1	EP			
	59.	2/28/98	HU 215963 B	HU			No
	60.	11/5/90	JP 02-270864 (English Abstract)	JP			No

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Examiner Initials	Ref. No.	Title
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	63.	Amin, et al., (1996) "RPR 101821, a New Potent Cholesterol-lowering Agent: Inhibition of Squalene Synthase and 7-Dehydrocholesterol Reductase", Naunyn-Schmiedeberg's Arch Pharmacol 353:233-240
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	81.	Billman, (2003) "RSD-1235", Current Opinion Investigational Drugs 4(3):352-354	
	82.	Boiadjev, et al., (1996) "pH-Sensitive Exciton Chirality Chromophore..Solvatochromic Effects on Circular Dichroism Spectra", Tetrahedron: Asymmetry 7(10):2825-2832	
	83.	Bowen, et al., (1992) "Characterization of the enantiomers of cis-n-[2-(3,4-Dichlorophenyl)Ethyl]-N-Methyl-2-(1-Pyrrolidinyl)Cyclohexylamine (BD737 and BD738): Novel Compounds with High Affinity, Selectivity and Biological Efficacy at Sigma Receptors" J. Pharmacol. Exp. Ther. 262(1):32-40	
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	85.	Cardiome Pharma Corp. Healthcare (Underweight) Company Report December 12, 2002. 26 pages	
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	88.	Cardiome Reports Oral Absorption of RSD1235 in Humans. News Release via Canada Newswire (2002). 3 pages	
	89.	Clohs, L. et al., (2002) "Validation of a capillary electrophoresis assay for assessing the metabolic stability of verapamil in human liver microsomes" J Cap Elec & Microchip Tech. 007: 113-117	
	90.	Clohs, Lilian. "Bio-Analytical Applications of Capillary Electrophoresis In A Drug Discovery Setting" CSC Seminar June 2002, 29 pages	
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	92.	Clohs, Lilian "Capillary Electrophoresis as an Analytical Tool in the Drug Discovery Process" Presentation CE Symposium, August, 2000, 40 pages	
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	99.	De Costa, Brian R. (1990) "Synthesis and Evaluation of N-Substituted <i>cis</i> -N-Methyl-2-(1-pyrrolidinyl)cyclohexylamines as High Affinity σ Receptor Ligands. Identification of a New Class of Highly Potent and Selective σ Receptor Probes" J Med Chem, 33:3100-3110	
	100.	Doci, A. "Local Anesthetic Effects of Intradermal RSD921 In Healthy Subjects" Clin Pharm & Therapeutics, 65(2): 177	
	101.	Duan, D. et al., (1993) "Potassium Channel Blocking Properties of Propafenone in Rabbit Atrial Myocytes ¹ " J Pharm Exp Ther 264(3): 1113-1123	
	102.	Ezrin, Alan M. et al., (2002) "A Dose-Ranging Study of RSD1235, A Novel Antiarrhythmic Agent, In Healthy Volunteers" Pharmacologist, 44(2) (Supplement I), A15: XIV th World Congress of Pharmacology: Meeting Abstracts	
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Cardiovasc. Pharmacother. 16 Abstract P297			
	104.	Ezrin, Alan et al., (2002) "Safety and Pharmacokinetics of RSD1235, A novel Atrial Fibrillation Converting Drug, In Healthy Volunteers & Statins Benefit Coronary Heart Disease Patients more than Hypercholesterolaemic Subjects: Inferences Bases on NNT" Poster Int Soc Cardio Pharm, pp 49	
	105.	Fedida, D. et al., (2002) "Kv1.5 is an Important Component of Repolarizing K ⁺ Current in Canine Atrial Myocytes" Circulation Research Peer Review Plus Manuscript PDF, 38 pages	
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	115.	Hayes, ES. et al., (1997) "Actions of Arylpiperazines on Corpus Cavernosum Smooth Muscle <i>In Vitro</i> " Asia Pac J Pharmacol, 12:97-103	
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	117.	Hayes, E. S. et al., (1996) "RSD992 Enhances Erection and Copulation in Rats and Erection in Primates" Int J Impotence Res, pp 189, (Abstract P24)	
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	119.	Hesketh JC. and Fedida D. et al. "Ionic mechanisms of atrial fibrillation." In <u>Cardiac Drug Development Guide</u> , ed. Pugsley, M. Ch 9, pp163-174, Humana Press, NJ. 2003	
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	122.	Keefe, D. et al. (1981) "New Antiarrhythmic Drugs: Their Place in Therapy" Drugs 22:363-400	
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